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NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

04/24/2008

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314

EXAMINER

CHOI, LING SIU

ART UNIT PAPER NUMBER

1796 DATE MAILED: 04/24/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,509	08/04/2006	Ryo Aburatani	293634US0PCT	2080

TITLE OF INVENTION: MODIFIED DIENE-ALPHA-OLEFIN COPOLYMER AND METHOD FOR PRODUCING SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/24/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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CURRENT CORRESPONDI 22850	ENCE ADDRESS (Note: Use Bl		Fee(s pape have	s) Transmittal. This c rs. Each additional pa its own certificate of	ertificate cannot be used aper, such as an assignmentaling or transmission.	or domestic mailings of the for any other accompanying ent or formal drawing, must smission g deposited with the United
1940 DUKE STI ALEXANDRIA	REET , VA 22314		State addre trans	es Postal Service with essed to the Mail St mitted to the USPTO	sufficient postage for fir cop ISSUE FEE address (571) 273-2885, on the o	smission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
						(Depositor's name)
			<u> </u>			(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	A	ITORNEY DOCKET NO.	CONFIRMATION NO.
10/588,509 ITTLE OF INVENTION	08/04/2006 : MODIFIED DIENE-A	LPHA-OLEFIN COPOI	Ryo Aburatani LYMER AND METHOD F	OR PRODUCING SA	293634US0PCT AME	2080
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE F	EE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/24/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
CHOI, LI	ING SIU	1796	526-340400			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	" Indication form led. Use of a Customer A TO BE PRINTED ON T	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be particular will appear on the path a substitute for filing an a (B) RESIDENCE: (CITY)	ely, e firm (having as a magent) and the names of news or agents. If no printed. e) tent. If an assignee assignment.	ember a 2	locument has been filed for
			* *			oup entity Government
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a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	ıs. See 37 CFR 1.27.	☐ b. Applicant is no long			
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			ART UNIT	PAPER NUMBER	
ALEXANDRIA, V	/A 22314		1796		
		DATE MAILED: 04/24/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 47 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 47 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/588,509	ABURATANI ET AL.
Notice of Allowability	Examiner	Art Unit
	Ling-Siu Choi	1796
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31:	(OR REMAINS) CLOSED i) or other appropriate comm RIGHTS. This application is	n this application. If not included unication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the Amendment filed</u>	<u>102/20/2008</u> .	
2. ☑ The allowed claim(s) is/are <u>1-13</u> .		
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 2. Certified copies of the priority documents have 	e been received.	
3. ☑ Copies of the certified copies of the priority do	• •	
International Bureau (PCT Rule 17.2(a)).		<u> </u>
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON'THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subn	MENT of this application. nitted. Note the attached EX	AMINER'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which giv	· , -	r declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mu		
(a) including changes required by the Notice of Draftsper		w (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date	=	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 ☐ Notice of Ir	nformal Patent Application
 Notice of Neterences Cited (FTO-092) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		summary (PTO-413),
 Information Disclosure Statements (PTO/SB/08), 	Paper No.	/Mail Date Amendment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance
of Biological Material	9. ☐ Other	
	J. [] Otilei	

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DETAILED ACTION

1. This Office Action is in response to the Amendment filed 02/20/2008. Claims 8-13 have been added and claims 1-13 are now pending.

Allowable Subject Matter

- 2. Claims 1-13 are allowed.
- The following is an examiner's statement of reasons for allowance:
 The present claims are allowable over the closest references: Selley (US 4,041,104).

Summary of claim 1:

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Selley discloses a hydroxyl-terminated copolymer prepared by polymerization of one or more conjugated dienes having C_{4-8} such as 1,3-butadiene with up to about 40 mol % of one or more vinyl monomers such as styrene by a free radical polymerization in the presence of ethylene oxide which lead to forming terminated hydroxyl groups, wherein the hydroxyl-terminated copolymer has a molecular weight of about 500 to about 10,000 (col. 3, lines 6-13, 32-44). Selley further discloses that "those polydienes (or copolymers) resulting from predominantly 1,4 - addition polymerization. A minor amount of 1,2- addition product (col. 2, line 68; col. 3, lines 1-2). Selley furthermore discloses that the hydroxyl-terminated polydiene reacts with a molar excess of organic diisocyanate and subsequently reacts with an hydroxyalkyl acrylate" (abstract). Thus, Selley does not teach or fairly suggest the claimed modified diene- α -olefin copolymer, wherein at least one of R^1 and R^2 (terminal group) in the formula 1 is $H_2C=C(R^5)-COO$ -.

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reached on 571-272-1114.

/Ling-Siu Choi/

Primary Examiner, Art Unit 1796

April 11, 2008

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